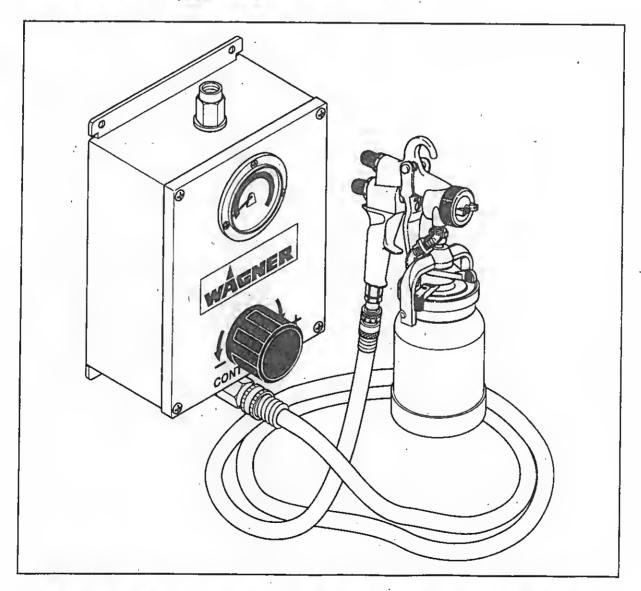


**Operating Manual** 

5,1,10

# FineCoat Controller Coating system



FineCoat spray gun with pressure regulator

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#### Safety regulations for FineCoat spraying

All local regulations in force must be observed.

In order to ensure safe operation of the FineCoat systems the safety regulations listed below must be followed.

- 1. Read the operating manual carefully and follow the instructions given in order to avoid possible danger.
- Never operate near sources of ignition, e.g., open flames, cigarettes, cigars and pipes, sparks, redhot wires, hot surfaces, etc.
- Warning! Risk of injury by injection!Never point the spray gun at persons or animals



- 4. Always wear a protective mask when spraying. In order to avoid occupational illnesses, always follow the manufacturer's instructions for the materials, solvents and cleaning agents used when preparing and using such materials and when cleaning the unit. Protective clothing, gloves and, if necessary, skin protection cream should be used to protect the skin.
- 5. For safety reasons, never use solvents based on 1,1,1 trichloroethane or methylene chloride.
- When working indoors, a sufficient flow of air must be ensured for extracting the solvent vapors.
- Extraction systems should be installed on-site in accordance with local regulations.
- 3. The work-pieces to be sprayed must be earthed.
- For breaks in work always secure the spray gun against unintentional operation (see page 5, flg. 13).
- 10. When cleaning the unit with solvents, never spray into a container with only a small opening (bunghole). Formation of a explosive gas/air mixture. The container must be earthed.

#### 2. Applications

The "FineCoat Controller" coating system consists of a pressure controller which supplies compressed air to a Fine Coat spray gun with material cup via an air hose (the Fine Coat system is an advancement and improvement of the commonly used High Volume Low Pressure coating system).

The controller is attached to the wall near the workplace and is connected to the compressed air supply.

The Fine Coat system is suitable for the application of primers, lacquers, solvent-based paints and water-soluble paints.

The reduced overspray results in a very high transfer efficiency of 80%.

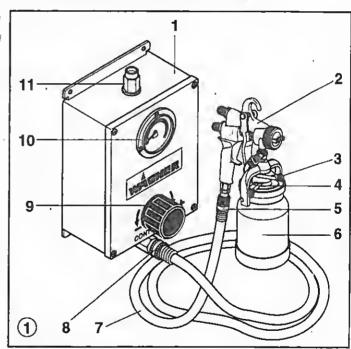
#### 3. Technical data

Max. inlet pressure: 8 - 10 bar

Compressed air supply: min. 400 l/min

Sound level, max.: 83 dB (A)

#### 4. Description of components



- 1 Pressure regulator (controller)
- 2 Fine Coat-spray gun
- 3 Closing lever for paint container
- 4 Rotating lever for ascending feed pipe
- 5 Quick coupling for spraygun
- 6 Paint container (1 litre)
- 7 Air hose (9m)
- 8 Hose connection with swivel
  - 9 Air pressure control knob
  - 10 Pressure gauge (6 2 bar)
  - 11 Air inlet (BSP 1/2 in connection)

#### 4.1 Function of the pressure controller

The compressed air for operating the Fine Coat spray gun is controlled by the pressure controller (adjustment from 0 to 1.4 bar) and is limited to max. 1.4 bar by a safety valve.

Press the air pressure control knob in to fix the set working pressure.

#### 4.2 Function of the Fine Coat spray gun

In the Fine Coat spray gun, the controlled compressed air is divided into atomizing air and compressed air to the material cup (suspended cup).

Atomization of the material is achieved by combining high air volume with low working pressure.

This spray gun which is especially designed for Fine Coat technology enables controlled spraying with little overspray.

Moreover, with the Fine Coat spray gun, the spray pattern can be adjusted from 6 mm round jet to 350 mm flat jet, depending on the selected nozzle set.

#### 4.3 Safety devices

When connecting the air hose to the pressure controller without Fine Coat spray gun, a valve in the quick release coupling prevents the release of compressed air.

When the allowable pressure of 1.4 bar in the pressure controller is exceeded, a safety valve is automatically opened and air is released.

By turning back the compressed air control knob, which decreases the pressure to zero bar, the safety valve is closed.

# 5. Setup

#### 5.1 Pressure controller

 Attach the controller module securely to the wall near the spray booth.

(Note: delivered air hose 9 m)

2. Data for air pressure connection :

max. inlet pressure: 8 - 10 bar Thread connection: BSP 1/2 in

Attention: before connecting the controller to the air source, turn the air control knob completely to the left!

Connect the air pressure supply.

**Note**: The air compressor should have a volume output of 400 Liters/Minute or higher for the system to operate properly.

Connect the air hose and the Fine Coat spray gun.

#### Pressure gauge chart

| Colour   | Display bar | Comment                          |
|----------|-------------|----------------------------------|
| Green    | 0 – 1       | normal operation range           |
| Yellow . | 1 1,4       | max. recommended operation range |
| Red      | 1,4 – 2     | not recommended for operation    |

#### 5.2 Preparing the coating material

Observe the manufacturer's instructions for the use of the coating material on the paint tin or on the technical instruction sheet.

#### Coating material purity:

An absolute pre-condition for the trouble-free operation of the fine-spray system is that the **coating material is** uncontaminated. If you have doubts as to the purity of the coating material, we recommend that you first filter it through a fine sieve.

#### 5.3 Table of viscosities and nozzle sets

| Coating material                                   | Viscosity DIN-s<br>(4 mm DIN cup)      | Nozzle set<br>No. |
|--|--|-------------------|
| Solvent-based lacquer paints                       | 15 - 45                                | 3 - 4             |
| Water-soluble lacquer paints                       | observe manufacturer's instructions    | 4-5               |
| Wood preservatives<br>(scumble, mordants, etc.)    | undiluted                              | 2 - 3             |
| Multi-color effect<br>materials, multi-color paint | observe manufacturer's instructions    | 6 - 7             |
| Texture and effect paints                          | observe manufacturer's<br>Instructions | 5 - 6             |

#### 5.4 FineCoat spray gun

- 1. Open closing lever on the paint container, remove paint container.
- 2. Fill paint container with coating material.
- Check that the paint container seal is clean and is seated correctly.
- 4. Clip the container onto the spray gun and secure with the closing lever.
- 5. Pull out air pressure control knob on pressure regulator (controller) and set atomizer air.

Green 0 -- 1.bar normal operation range
Yellow 1 -- 1,4 bar max. recommended operation range

Red 1,4-2 bar not recommended for operation

Press the air pressure control knob in to fix the set working pressure.

- 6. Point the paint spray gun at the object to be sprayed.
- 7. Determine the settings for the spray pattern, spray jet width, amount of material, amount of air and ascending feed pipe settings, see fig. 2 8 and the description page 3/4.
- 8. Operate trigger on the paint spray gun.

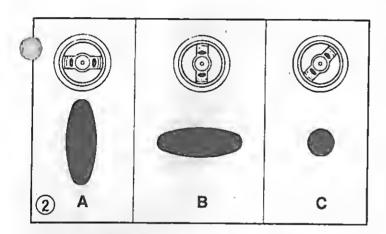
### 6. Setting the FineCoat spray gun

Spray pattern selection (fig. 2)

A = vertical flat jet for horizontal surfaces

B = horizontal flat jet for vertical surfaces

C = round jet for comers and edges and places difficult to access.

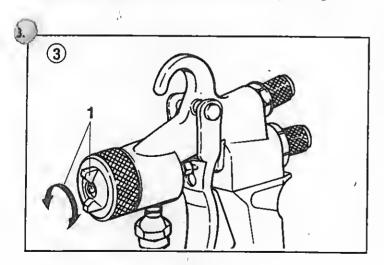


#### Setting the required spray pattern (fig. 3)

Turn the air cap (1) to the required spray pattern position.

#### Attention:

Never pull trigger while adjusting the air cap settings.



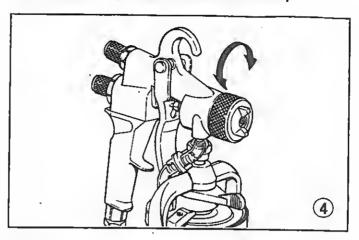
#### Setting the spray jet width (fig. 4)

#### Adjusting ring

Turn to the nght = wider spray jet Turn to the left = narrower spray jet

#### Note:

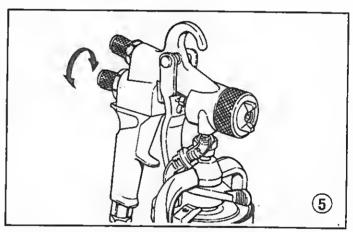
The adjusting ring does not fasten the air cap!



#### Setting the amount of material (fig. 5)

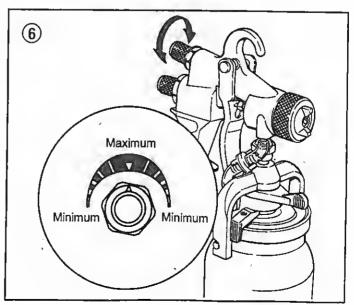
Set the amount of material by turning the material adjustment knob.

Turn to the left = more material Turn to the right = less material



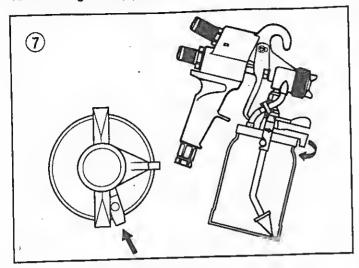
#### Setting the amount of air (fig. 6)

The correct setting for the amount of air is decisive for the atomization and formation of paint mist.

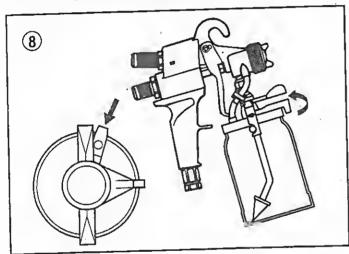


# Setting the ascending feed pipe

Spraying object lying on floor (fig. 7)
Turn rotating lever (2) clockwise as far as it will go.



Spraying object over head (fig. 8)
Turn rotating lever anti-clockwise as far as it will go.



# 7. Spraying technique

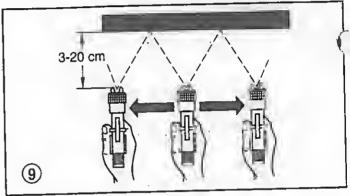
Hold the paint spray gun upright and maintain a constant distance to the object being sprayed. Move the paint spray gun evenly either from side to side or up and down. If the gun is moved evenly, it will produce an even surface finish. No runs will occur if the speed is correct.

Always start spraying away from the object and avoid stopping spraying whilst still on the object.

Note: If the round jet setting is used, the distance may be increased according to the size of the object being sprayed.

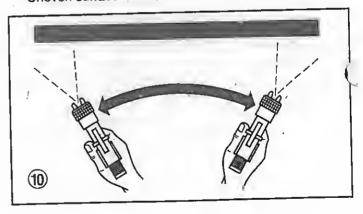
 In case of excessive paint mist formation, adjust the air and material flow respectively and alter the distance from the object.

#### Right



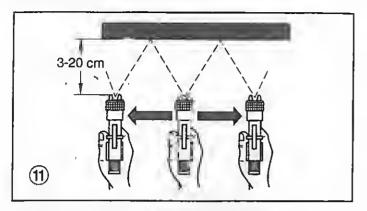
#### Wrong

- Excessive paint mist formation
- Uneven surface finish



# Spraying technique when using textured and effect paints:

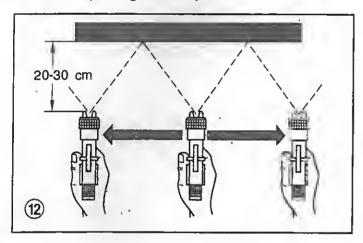
When spraying with a flat fan, the distance to the object should be between 3 and 20 cm.



#### Spraying technique when using color-effect or multicolor paints:

When spraying with a flat fan, the distance to the object should be between 20 and 30 cm

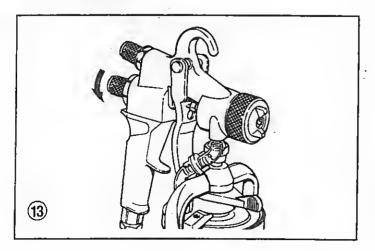
**lote:** When selecting the round fan, the distance may be increased depending on the object.



#### 8. Breaks in work

Turn the material regulating knob to the right as far as it will go (fig 13).

This will secure the paint spray gun against unintentional operation.



#### 9. Finishing work and cleaning

- 1. Turn off compressed air supply.
- Hold the paint spray gun in the original container.
   Press the trigger to release the pressure in the spray gun container.
- 3. Undo the paint container closing lever and remove the container.
- 4. Empty the remaining coating material into the original container.
- 5. Fill the spray gun container with solvent or water and fit onto the spray gun.
- 6. Shake the paint spray gun well.
- 7. Provide compressed air supply. Spray the solvent or water into an open container.

#### Caution!

Never spray into a container with only a small opening (bunghole)! See safety regulations.

8. Repeat this procedure until the solvent or water coming out of the tip is clear.

Then empty the paint container completely.

Caution! Never leave solvents in the spray gun container; this may cause pressure to build up in the container.

Always keep the paint container seal clean of left over coating material and check regularly for signs of damage.

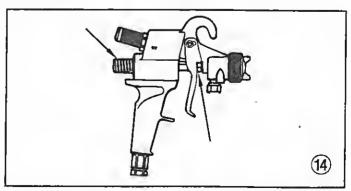
- 9. Tum off compressed air supply.
- Clean the outer surfaces of the paint container and paint spray gun with a cloth soaked in solvent or water.

**Note:** Do not leave the FineCoat spray gun immersed in solvent for extended periodsl (The seals and air pipe on non-return valve may swell, preventing them from functioning properly.)

11. Unscrew adjusting ring, remove air cap and spring plate. Unscrew nozzle. Clean air cap, tip and needle with brush and solvent or water.

**Note:** Never use sharp metal objects to clean the nozzles or air channels of the FineCoat spray gun.

12. Apply a fine coat of silicone-free oil to the marked areas.

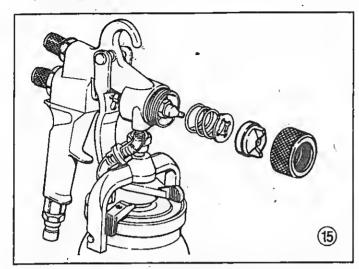


13. If the paint spray gun is not used for any length of time, it should be cleaned and protected by applying a fine coat of silicone-free oil.

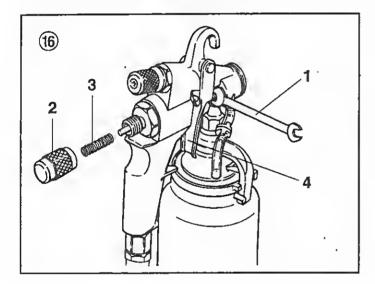
#### 10. Changing the nozzle

**Note:** Make sure that the air cap, the tip and the needle have identical markings.

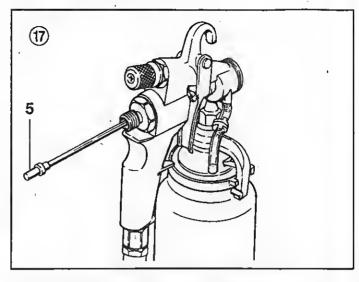
1. Remove the adjusting ring, the air cap and the spring plate (fig. 15).



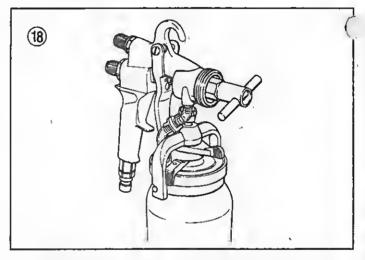
2. Fig. 16 – Loosen the needle seal with the open-end wrench (1). Remove the material adjusting knob (2) and the pressure spring (3). Open trigger of the spray gun to facilitate needle removal (4).



3. Remove the needle (5) (fig. 17).



4. Remove the tip with the enclosed special socket wrench (fig. 18).



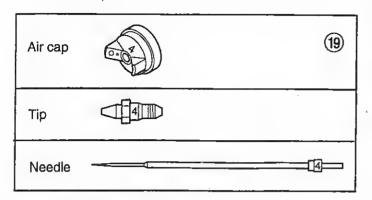
Reassemble with the new nozzle set in reverse order.

**Attention**: The needle seal screw connection must be readjusted after reassembly.

# 11. Spray gun accessories and spare parts

#### Nozzle sets:

The spray nozzle set consists of an air cap, a tip and a needle (fig 19).



#### Table of nozzle sets

| Marking | Set (complete) |                     |
|---------|----------------|---------------------|
|         | Part No.       | Tip size            |
| 2       | 0276 254       | Ø 0.8 mm            |
| 3       | 0276 227       | Ø 1.3 mm            |
| 4       | 0276 228       | Ø 1.8 mm (standard) |
| 5       | 0276 229       | Ø 2.2 mm            |
| 6       | 0261 021       | Ø 3.0 mm            |
| 7       | 0261 022       | Ø 4.0 mm            |
|         |                |                     |

Valve plate set for non-return valve 10 pcs. Part No. 0277 919

#### Service set

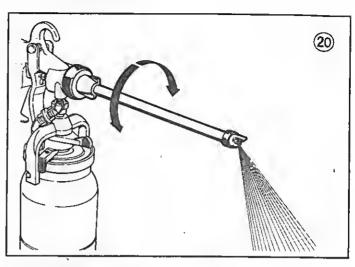
consisting of seal item 5, page 11, seal item 8, needle seal item 24, air pipe item 30, non-return valve item 33, air pipe item 34, paint container seal item 49.

Part No. 0277 943

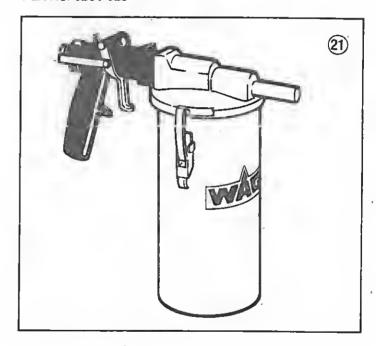


#### 12. Special accessories

RN 30 Extension tip for ribbed radiators, length 30 cm.
Part No. 0261 020



WF 20 Flocking gun for the application of dry chips Part No. 0261 025



# 13. Troubleshooting chart for finish problems

| Problem       | Cause                                | Remedy  |  |  |
|---------------|--------------------------------------|---|--|--|
| Orange peel   | Paint drying too fast                | Slower solvent or retarder                                  |  |  |
|               | Gun too far from surface             | Move closer to target                                       |  |  |
|               | Viscosity of paint too high          | Reduce viscosity  |  |  |
| Runs and sags | Material too thin                    | Add material  |  |  |
| •             | Movement of gun too slow             | Speed up passes   |  |  |
| •             | Too much material                    | Reduce material flow by turning in material adjustment knob |  |  |
|               | Spray gun too close to workpiece     | Move gun back from workpiece                                |  |  |
| Pinholing     | Trapped solvents                     | Apply material in lighter coats                             |  |  |
| Fish eyes     | Possible silicone contamination      | Use solvent to clean all parts                              |  |  |
| Blistering    | Moisture In/on spray surface         | Thoroughly clean surface                                    |  |  |
|               | Incompatible top coats or undercoats | Make sure coatings are compatible                           |  |  |

# 14. Troubleshooting chart

| Problem                         | Cause  | Solution   |  |
|---------------------------------|--|--|--|
| Little or no paint flow         | Insufficient pressure  | Increase pressure  |  |
| •                               | Material too thick   | Thin with solvent  |  |
|                                 | Non-retum valve (33) clogged, see page 11                    | Unscrew non-return valve and clean or exchange valve plate. Pay attention to the direction of the arrow during assembly. |  |
|                                 | Paint container seal damaged                                 | Replace  |  |
|                                 | Filter (48) clogged  | Clean or replace   |  |
|                                 | Paint container empty  | Refill   |  |
|                                 | Adjusting ring (29) open too far                             | Adjust   |  |
| 0                               | Material adjusting knob (1) closed                           | Adjust   |  |
| Tip drips                       | Worn tip   | Replace  |  |
|                                 | Contamination in tip   | Clean  |  |
|                                 | Material adjusting knob open too far                         | Adjust material adjusting knob accordingly (see page 3)  |  |
|                                 | Needle seal screw connection (18) over-tightened             | Adjust   |  |
| Spray pattern sickle-shaped     | Air cap holes clogged  | Clean  |  |
| Spray jet flutters              | Coating material in paint container is running out           | Refill coating material  |  |
|                                 | Filter clogged   | Clean or replace   |  |
| eaks around the needle (3)      | Needle seal screw connection (18) loose                      | Tighten screw connection for needle seal (18) loosely with open-end wrench.  |  |
|                                 | Needle seal (24) worn  | Tighten or replace the needle seal (24)  |  |
| Too much overspray              | Air pressure too high  | Reduce air pressure  |  |
|                                 | Material too thin  | Add unthinned paint  |  |
|                                 | Spray gun too far from target                                | Move closer  |  |
| Air leaking from the Controller | Safety valve not seated                                      | Turn pressure down to zero and then increase   |  |
| Water in air lines              | Condensation   | Install volume moisture trap   |  |
| System leaks pressure           | Restriction in air line from compressor (existing regulator) | Remove restriction (regulator)   |  |
|                                 | Air compressor too small                                     | Use larger compressor  |  |

# 15. Spare parts

# 15.1 Spare parts list, pressure regulator (controller)

Manometer
Dual axis hose swivel

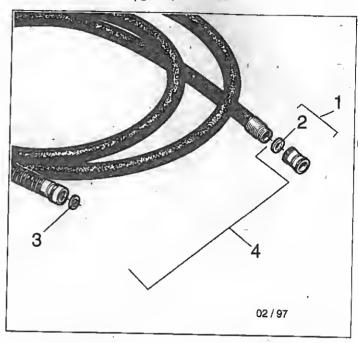
0261 247<sub>.</sub> 1070 031

Part No.

# 15.2 Spare parts list, air hose

| Item | Part No. | Description                 |
|------|----------|-----------------------------|
| 1    | 1070 032 | Hose quick-release coupling |
| 2    | 0276 439 | Seal quick-release coupling |
| 3    | 0277 413 | O-ring                      |
| 4    | 1030 011 | Air hose 9 m                |
|      |          |                             |

15.3 Spare parts dlagram, air hose

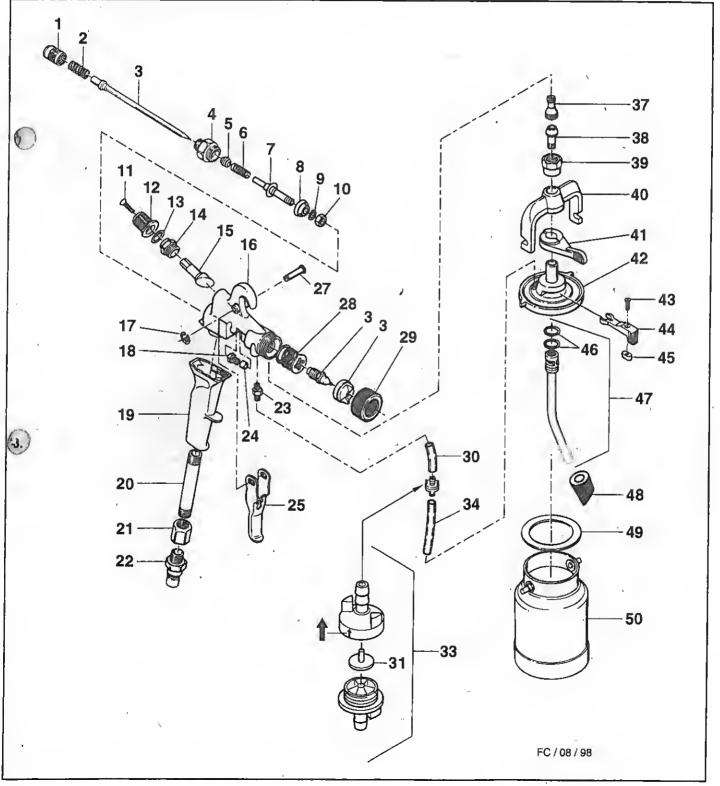


15.4 Spare parts list, FineCoat spray gun (spare parts diagram, see page 11)

| Item | Part No.   | Description                        | Item | Part No.   | Description               |
|------|------------|------------------------------------|------|------------|---------------------------|
|      | 0279 094   | FineCoat paint spray gun           | 16   | 0277 185   | Housing                   |
| 1    | 0277 502   | Material adjusting knob            | 17   | 0277 515   | Retaining ring            |
| 2    | 0275 576   | Neddle spring 0295 575             | · 18 | 0277 508   | Screw connection          |
| 3    | 0276 228   | Nozzle set no. 4 (consists of air. | 19   | 0277 470   | Handle                    |
|      | 1          | cap, tip and needle)               | 20   | 0277 481   | Pipe                      |
| 4    | 0277 510   | Housing                            | 21   | 0277 480   | Hexagon nut               |
| 5    | 0275 501 * | Seal                               | 22   | 0275 301   | Nipple                    |
| 6    | 0275 578   | Pressure spring                    | 23   | 0277 505   | Nipple                    |
| 7    | 0277 536   | Tappet                             | 24   | 0275 579 * | Needle seal               |
| 8    | 0277 486 * | Seal                               | 25   | 0277 198   | Trigger                   |
| 9    | 0277 489   | Retaining ring                     | 27   | 0277 514   | Axle                      |
| 10   | 9811 119   | Hexagon nut                        | 28   | 0275 250   | Spring plate              |
| 11   | 9805 205   | Screw                              | 29   | 0277 507   | Adjusting ring            |
| 12   | 0277 491   | Knob                               | 30   | 0277 482 * | Air pipe                  |
| 13   | 9894 242   | Spring washer                      |      | 0277 919   | Valve plate set – 10 pcs. |
| 14   | 0277 498   | Valve housing                      |      | 0276 248 * | Non-return valve          |
| 15   | 0277 493   | Valve                              |      | 0277 483 * | Air pipe                  |

| item | Part No. | Description    | Item | Part No.   | Description          |
|------|----------|----------------|------|------------|----------------------|
| 37   | 0277 506 | Double socket  | 45   | 0277 449   | Guide                |
| 38   | 0277 509 | Nipple         | 46   | 9871 049   | O-ring               |
| 39   | 0277 511 | Nut            | 47   | 0277 178   | Ascending feed pipe  |
| 40   | 0277 451 | Bridge         | 48   | 0275 588   | Filter               |
| 41   | 0277 467 | Closing lever  | 49   | 0277 495 * | Paint container seal |
| 42   | 0277 460 | Lid            | 50   | 0275 573   | Paint container      |
| 43   | 9805 206 | Screw          |      | 0261 889   | Socket wrench        |
| 44   | 0277 448 | Rotating lever |      | 0277 943 * | Service set          |

## 15.5 Spare parts diagram, FineCoat spray gun





#### MANUFACTURING AND SALES COMPANIES

| J. Wagner GmbH          |
|-------------------------|
| Otto-Lilienthal Str. 18 |
| 88677 Markdorf          |

D

Fed. Rep. of Germany

Phone 07544 / 5050 Fax 07544 / 505-200

#### CH

Wagner International AG: Industriestr. 22 9450 Altstätten Switzerland

Phone 071 / 7 57 22 11 Fax 071 / 7 57 22 22

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> Phone 720 / 743561 Fax 720 / 743426

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Wagner Spraytech Corp. P.O, Box 9362 Minneapolis / Minn. 55440 USA

Phone 612 - 553 / 7000 Fax 612 - 553 / 7288

#### SALES AND SERVICE COMPANIES

A

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A list of international WAGNER distributors is available on request

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# Important notes on product liability

As a result of an EC regulation being effective as from January 1, 1990, the manufacturer shall only be liable for his product if all parts come from him or are released by him, and if the devices are properly mounted and operated.

If the user applies outside accessories and spare parts, the manufacturer's liability can fully or partially be inapplicable; in extreme cases usage of the entire device can be prohibited by the competent authorities (employer's liability insurance association and factory inspectorate division).

Only the usage of original WAGNER accessories and spare parts guarantees that all safety regulations are observed.

# CE Declaration of conformity

erewith we declare that the supplied version of

WAGNER FineCoat Controller, 0275 002, 0275 118

complies with the following provisons applying to it: 89/392 EEC.

Applied harmonized standards, in particular: **EN 292-1/-2** 

Applied national technical standards and specifications, in particular:

DIN 24 558, VBG 23

Date: 30. 11, 1994

#### Guarantee declaration

12 months, single shift, 6 months for multiple shifts.

We guarantee this equipment on the following terms:

We will repair or replace, at our discretion, free of charge, all parts which, within 12 or 6 months from date of purchase, are found to be wholly or substantially unserviceable due to causes arising prior to the sale – in particular faulty design, materials or workmanship.

The guarantee does not extend to damage due to the following causes:

Unsuitable or improper usage, faulty assembly or putting into operation by the purchaser or a third party, normal wear, negligent handling or servicing, unsuitable spraying media, particularly corrosive and abrasive materials, use of substitute materials and the action of chemical, electro-chemical or electric agents not attributable to us. Abrasive spraying media, such as red lead, emulsions, slips and glazes, liquid abrasives and similar, reduce the life of valves, packings, gun and tip, as well as of pneumatic pump pistons. The resulting wear is not covered by the guarantee.

The equipment should be inspected immediately upon receipt. Any apparent defect should be notified in writing to the supplier or to our works within 14 days, otherwise all rights to redress are invalidated.

We reserve the right to entrust compliance with the guarantee to an approved subcontractor.

The granting of this guarantee requires proof of purchase by presentation of invoice or delivery note.

Where the inspection shows damage not falling within the terms of the guarantee, the repair will be carried out at the purchaser's expense.

J. WAGNER GmbH

**Executive Officer** 

Signature

Executive Secretary

Subject to modifications Printed in Germany

